



Plug-in relays



40 series						44 series		41 series		43 series		46 series			
industrial PCB relay 5mm pinning						low profile PCB relay 5mm pinning		low profile PCB relay 3.5mm 5.0mm		low profile slimline 3.2mm pinning		industrial relay plug-in			
40.51		40.61		40.52		44.52	44.62	41.31	41.52	43.41		46.52		46.61	
1 CO (SPDT)		1 CO (SPDT)		2 CO (DPDT)		2 CO (DPDT)		1 CO	2 CO	1 CO (SPDT)		2 CO (DPDT)		1 CO (SPDT)	
10		16		8		6	10	12	8	10		8		16	
20		30		15		10	20	25	15	15		15		25	
250		250		250		250		250		250		250		250	
400		400		250		400		400		400		400		400	
2500		4000		2000		1500	1800	3000	2000	2500		2000		4000	
500		750		400		250	500	600	400	500		350		750	
0.37		0.55		0.3		0.185	0.37	0.5	0.3	-		0.37		0.55	
10/0.3/0.12		16/0.3/0.12		8/0.3/0.12		6/0.3/0.13		12/3/12	8/-/-	10/0.3/0.12		6/0.5/0.15		12/0.5/0.15	
300(5/5)		500(10/5)		300(5/5)		300(5/5)		300(5/5)		300(5/5)		300(5/5)		300(5/5)	
AgNi		AgCdO		AgNi		AgNi		AgNi		AgCdO		AgNi		AgNi	
6 - 12 - 24 - 48 - 60 - 110 - 230						-		-		-		12 - 24 - 48 - 120 - 230			
5 - 6 - 7 - 9 - 12 - 14 - 18 - 24 - 28 - 36 - 48 - 60 - 110						6 ... 110		12 ... 110		6 ... 48		12 - 24 - 48 - 110			
1.2	0.65	1.2	0.65	1.2	0.65	-	0.65	-	0.4	-	0.25	1.2	0.5	1.2	0.5
0.8...1.1		0.8...1.1		0.8...1.1		-		-		-		0.8...1.1		0.8...1.1	
0.73...1.5		0.73...1.5		0.73...1.5		0.73...1.5		0.7...1.5		0.7...1.5		0.73...1.1		0.73...1.1	
0.8	0.4	0.8	0.4	0.8	0.4	-	0.4	-	0.4	-	0.4	0.8	0.4	0.8	0.4
0.2	0.1	0.2	0.1	0.2	0.1	-	0.1	-	0.1	-	0.05	0.2	0.1	0.2	0.1
10.10 ⁶	20.10 ⁶	10.10 ⁶	20.10 ⁶	10.10 ⁶	20.10 ⁶	-	20.10 ⁶	-	30.10 ⁶	-	10.10 ⁶	10.10 ⁶		10.10 ⁶	
200.10 ³		100.10 ³		100.10 ³		100.10 ³		150.10 ³	80.10 ³	100.10 ³		100.10 ³		100.10 ³	
7	3	7	3	7	3	8	5	5	4	6	4	10	3	15	5
4kV/3		4kV/3		4kV/2		4kV/2		4kV/3		4kV/3		4kV/3		4kV/3	
6 (8mm)		6 (8mm)		6 (8mm)		6 (8mm)		6 (8mm)		6 (10mm)		6 (8mm)		6 (8mm)	
1000		1000		1000		1000		1000		1000		1000		1000	
-40...+85		-40...+85		-40...+85		-40...+85		-40...+85		-40...+85		-40...+70		-40...+70	
PCB		PCB		PCB		PCB		PCB		PCB		plug-in		plug-in	
25 x 29 x 12.4		25 x 29 x 12.4		25 x 29 x 12.4		25 x 29 x 12.4		15.7 x 29 x 12.7		15.4 x 30.2 x 10.2		32.8 x 29 x 12.4		32.8 x 29 x 12.4	
-		-		-		-		-		-		PCB / base mount		PCB / base mount	

Plug-in relays



type		55 series		56 series		60 series	
description		miniature industrial relays		miniature industrial relays		general purpose relays	
contact specification		55.32	55.34	56.32	56.34	60.12	60.13
contact configuration		2 CO	4 CO	2 CO	4 CO	2 CO	3 CO
rated current	A	10	7	12		10	
maximum peak current	A	20	15	20		20	
rated voltage	V	250	250	250		250	
maximum peak voltage	V	400	250	400		400	
rated load AC1	VA	2500	1750	3000		2500	
rated load AC15 (230V AC)	VA	500	350	700		500	
single phase motor (230V AC)	kW	0.37	0.125	0.55		0.37	
breaking capacity DC1 30, 110, 230V	A	10/25/12	7	12/0.25/0.12		10/0.4/0.15	
minimum switching load	mW (V / mA)	300(5/5)		500(10/5)		500(5/10)	
standard contact material		AgNi		AgNi		AgNi	
coil specification							
nominal voltage (U _N)	V AC	6 - 12 - 24 - 48 - 60 - 110 - 230		6 - 12 - 24 - 48 - 60 - 110 - 230 - 400		6 - 12 - 24 - 36 - 48 - 60 - 110 - 240 - 400	
	V DC	6 - 12 - 24 - 48 - 60 - 110		6 - 12 - 24 - 48 - 60 - 110 - 220		6 - 12 - 24 - 36 - 48 - 60 - 110 - 220	
rated power AC/DC	VA (50Hz) / W	1.5/1		1.5/1	2/1.3	2.2/1.3	
operating range (U _N)	AC	0.8 ... 1.1		0.8 ... 1.1		0.8 ... 1.1	
	DC	0.8 ... 1.1		0.8 ... 1.1		0.8 ... 1.1	
holding voltage (U _N)	AC / DC	0.8	0.5	0.8	0.6	0.80	0.5
must drop-out voltage (U _N)	AC / DC	0.2	0.1	0.2	0.1	0.2	0.1
technical data							
mechanical life AC/DC	cycles	20.10 ⁶	50.10 ⁶	20.10 ⁶	50.10 ⁶	20.10 ⁶	50.10 ⁶
electrical life AC/DC	cycles	200.10 ³		200.10 ³		200.10 ³	
operate / release time	ms	9	3	8	8	9	9
insulation according to EN 61810-1 ed.2		3.6kV/2		4kV/3		4kV/3	3.6kV/3
insulation between coil and contacts (1.2/50 μs)	kV	4kV		4		3.6	
dielectric strength between open contacts	V AC	1000		1000		1000	
ambient temperature range	°C	-40...+85		-40...+70		-40...+70	
termination		plug-in		plug-in		plug-in	
dimensions (H) x (W) x (D)		37.2 X 20.7 X 27.7		37.2 X 20.7 X 27.7	41 (4 CO)	54.2 X 32.5 X 36.4	
variations		PCB / base mount		PCB / base mount		fast-on	